

**Notice of Allowability**

Application No.

10/665,342

Examiner

Frank M. Lawrence

Applicant(s)

GORBULSKY, JACOB

Art Unit

1724

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the telephone interview of April 20, 2005.
2. ☒ The allowed claim(s) is/are 2-9 and 20 (renumbered as 2-9 and 1).
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

Frank M. Lawrence  
Primary Examiner  
Art Unit: 1724

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Jacob Gorbulsky on April 20, 2005.

The application has been amended as follows:

In the Specification:

The following ABSTRACT will replace the existing ABSTRACT on a separate sheet:

---ABSTRACT

The invention creates a new type of scrubbers: drum scrubber. In the drum scrubber, processed gas passes through a wet fiber filter, but unlike previously invented fiber-bed scrubber, the fiber is constantly cleaned. The cleaning is achieved by using filter material as a surface of the rotating drum, partially immersed in a liquid. While periodic immersion of filter fiber in liquid might achieve appropriate particle removal for some applications, better cleaning is provided by creating a reverse flow of liquid through the filter material. In addition, filter material could be sprayed with liquid from either within the drum or from outside of the drum, or both. Also, ultrasound could be used to release particles trapped within fibers while fibers are immersed in the liquid. This solves the plugging problem normally associated with wet filter and allows its use in most applications, including applications with a high dust load.---

In line 2 of page 4, "Fig 1" has been changed to ---Figs 1A and 1B---.

In line 3 of page 4, "Fig 2" has been changed to ---Figs 2A-2C---.

In line 4 of page 4, "Fig 3" has been changed to ---Figs 3A and 3B---.

In line 5 of page 4, "Fig 4" has been changed to ---Figs 4A and 4B---.

In line 7 of page 4, "Fig 5" has been changed to ---Figs 5A and 5B---.

In line 8 of page 4, "Fig 6" has been changed to ---Figs 6A and 6B---.

In line 20 of page 4, "Fig. 1" has been changed to ---Figs. 1A and 1B---.

In line 1 of page 6, "Fig. 2" has been changed to ---Figs. 2A-2C---.

In line 2 of page 6, "Fig. 1" has been changed to ---Fig. 1A---.

In line 19 of page 6, "Fig. 2" has been changed to ---Fig. 2A---.

In line 20 of page 6, "View B" has been changed to ---Fig. 2B---.

In line 24 of page 6, "Fig. 2" has been changed to ---Fig. 2A---.

In line 1 of page 7, "Fig. 3" has been changed to ---Figs. 3A and 3B---.

In line 2 of page 7, "Fig. 2" has been changed to ---Fig. 2A---.

In line 6 of page 7, "Fig. 2" has been changed to ---Fig. 2A---.

In line 21 of page 7, "Fig. 4" has been changed to ---Figs. 4A and 4B---.

In line 21 of page 7, "Fig. 2" has been changed to ---Fig. 2A---.

In line 2 of page 8, "Fig. 5" has been changed to ---Fig. 5A---.

In line 5 of page 8, "Fig. 2" has been changed to ---Fig. 2A---.

In line 9 of page 8, "Fig. 5" has been changed to ---Figs. 5A and 5B---.

In line 13 of page 8, "Fig. 4" has been changed to ---Fig. 4A---.

Art Unit: 1724

In line 15 of page 8, "Fig. 4" has been changed to ---Fig. 4A---.

In line 20 of page 8, "Fig. 6" has been changed to ---Figs. 6A and 6B---.

In the Claims:

Claims 1 and 10-19 have been canceled.

In line 1 of claim 2, "claim 1" has been changed to ---claim 20---.

In line 1 of claim 4, "claim 1" has been changed to ---claim 20---.

In line 1 of claim 6, "claim 1" has been changed to ---claim 20---.

In line 1 of claim 7, "claim 1" has been changed to ---claim 20---.

In line 1 of claim 8, "claim 1" has been changed to ---claim 20---.

In line 1 of claim 9, "claim 1" has been changed to ---claim 20---.

The following new claim has been added:

---Claim 20 (new) An apparatus for removal of pollutants within treated gas, comprising:

a vessel partially filled with liquid and having an inlet duct for receiving untreated gas and an outlet duct for removing treated gas,

a rotating drum disposed within the vessel for receiving a flow of untreated gas,

a surface of the drum made of filter material through which gas enters or exits the drum,

means for rotating said drum, and

a pipe reaching inside of the rotating drum for pumping liquid to or from the drum interior, wherein the pipe is attached to and extends through the inlet duct or

outlet duct.---

Art Unit: 1724

2. The following changes to the drawings have been approved by the examiner and agreed upon by applicant: A new set of drawings must be submitted in response to this office action either before or with the payment of the issue fee, in order to be consistent with the changes made to the specification by the examiner. The figures on sheet 1 must be labeled "Figure 1A" and "Figure 1B". The figures on sheet 2 must be labeled "Figure 2A", "Figure 2B" and "Figure 2C". The figures on sheet 3 must be labeled "Figure 3A" and "Figure 3B". The figures on sheet 4 must be labeled "Figure 4A" and "Figure 4B". The figures on sheet 5 must be labeled "Figure 5A" and "Figure 5B". The figures on sheet 6 must be labeled "Figure 6A" and "Figure 6B". In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

3. The following is an examiner's statement of reasons for allowance: The prior art of record fails to disclose or suggest a motivation for providing a pipe reaching inside of the rotation drum for pumping liquid to or from the drum interior, wherein the pipe is attached to and extends through the inlet duct or outlet duct in combination with the other recited structure.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 1724

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank M. Lawrence whose telephone number is 571-272-1161. The examiner can normally be reached on Mon-Thurs 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Frank M. Lawrence  
Primary Examiner  
Art Unit 1724

fl

*Frank Lawrence*

4-21-05